CLAIMS:

1. Recordable optical record carrier comprising:
- a first transparent substrate layer (1),
- a first semi-transparent recordable information layer (2) including an organic dye material having a high data storage capacity,
- a second transparent substrate layer (4),
- a second recordable information layer (5) including an organic dye material having a lower data storage capacity than said first information layer (2), and
- a cover layer (6).

2. Record carrier as claimed in claim 1, wherein said first information layer (2) is an information layer as used as L0 layer in a dual-layer DVD+R disc.

3. Record carrier as claimed in claim 1 or 2, wherein said first information layer (2) has a first complex refractive index $\tilde{n}_{\lambda 1} = n_{\lambda 1} - i\,k_{\lambda 1}$ at a first wavelength λ_1 and a second complex refractive index $\tilde{n}_{\lambda 2} = n_{\lambda 2} - i\,k_{\lambda 2}$ at a second wavelength λ_2, a thickness d, an optical reflection value R_1 at said first wavelength λ_1 and an optical transmission value T_2 at said second wavelength λ_2, wherein the following conditions are fulfilled: $T_2 \geq 0.76$, $R_1 \geq 0.15$, $n_1 \geq 2.0$, $k_1 < 0.3$, $k_2 < 0.1$ and d is in the range of $\lambda_1/8n_1 \leq d \leq 5\lambda_1/8n_1$, λ_1 being the wavelength of a radiation beam used for recording information in the first information layer (2) and λ_2 being the wavelength of a radiation beam used for recording information in said second information layer (5).

4. Record carrier as claimed in claim 1, wherein said first substrate layer (1) comprises a guide groove having a depth g, the guide groove being present at the side of the substrate layer adjacent said first information layer and wherein said first information layer (2) has a complex refractive index $\tilde{n} = n - i\,k$ at a wavelength λ of a radiation beam used for recording information, a thickness d_{RG} in the groove portion and a thickness d_{RL} in the

portion between the grooves, said groove depth g being in the range $(\lambda/650)*50$ nm < g < $(\lambda/650)*180$nm with λ expressed in nm.

5. Record carrier as claimed in claim 4, wherein the thickness d_{RG} of said first information layer (2) fulfils the condition 145 nm $\leq d_{RG} \cdot n < 245$ nm.

6. Record carrier as claimed in claim 3 or 4, wherein the first wavelength λ_1 is approximately 650 nm and the second wavelength λ_2 is approximately 780 nm.

7. Record carrier as claimed in claim 1, wherein said second information layer (5) is an information layer as used in a CD-R disc.

8. Record carrier as claimed in claim 1, wherein said first and said second substrate layers (2, 5) have a thickness in the range of 0.55 to 0.65 mm, in particular of substantially 0.6 mm.

9. Record carrier as claimed in claim 1, further comprising an additional semi-transparent reflector layer (7) between said first information layer (2) and said second substrate layer (4), in particular a dielectric mirror layer made of SiO_2 or SiC or a metallic mirror layer made of Ag.